SyncMaster 2043WM/2243WM

LCD Monitor

User Manual

imagine the possibilities

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Safety Instructions

Notational

Note

Please read the following safety instructions as they are designed to prevent damage to property and harm to the user.

Warning / Caution

Failure to follow directions noted by this symbol could result in bodily harm or damage to the equipment.

Notational Conventions

Prohibited	Important to read and understand at all times
Do not disassemble	Disconnect the plug from the outlet
Do not touch	Ground to prevent an electric shock

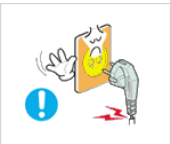
Power

When not used for extended period of time, set your computer to DPM.

If using screen saver, set it to active screen mode.

The images here are for reference only, and are not applicable in all cases (or countries).

Shortcut to Anti-Afterimage Instructions

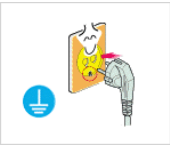


Do not use damaged or loose plug.

- This may cause electric shock or fire.

Do not pull the plug out by the wire nor touch the plug with wet hands.

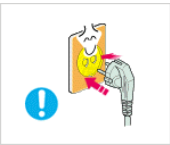
- This may cause electric shock or fire.



Use only a properly grounded plug and receptacle.

- An improper ground may cause electric shock or equipment damage.

(Class 1 Equipment only.)



Insert the power plug firmly so that it does not come loose.

- A bad connection may cause fire.

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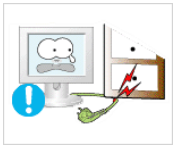
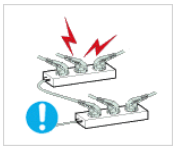


Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.

- This may cause electric shock or fire.



Do not connect too many extension cords or plugs to one outlet.

- This may cause fire.

Do not disconnect the power cord while using the monitor.

- A surge may be caused by the separation and may damage the monitor.

Do not use the power cord when the connector or plug is dusty.

- If the connector or plug of the power cord is dusty, clean it with a dry cloth.
- Using the power cord with a dusty plug or connector may cause an electric shock or fire.

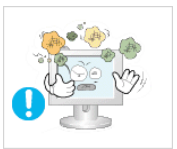
To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

- This may cause electric shock or fire.

Installation

Be sure to contact an authorized Service Center when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.

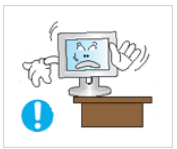


Place your monitor in a location with low humidity and a minimum of dust.

- Failure to do so may cause electric shock or fire inside the monitor.

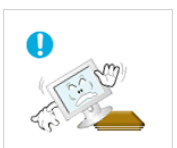
Do not drop the monitor when moving it.

- This may cause damage to the product or the person carrying it.



Install the monitor base in a showcase or shelf so that the end of the base does not protrude from the showcase or shelf.

- Dropping the product may cause damage to the product or the person carrying it.



Do not place the product on an unstable or small surface area.

- Place the product on an even and stable surface, as the product may fall and cause harm to someone walking by, specifically children.

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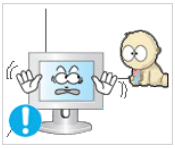


Do not place the product on the floor.

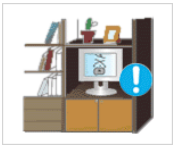
- Take care, as someone, specifically children may trip over it.

TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OTHER OPEN FLAMES AWAY FROM THIS PRODUCT AT ALL TIMES.

- Otherwise, this may cause fire.

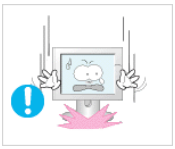
Keep any heating devices away from the power cable.

- A melted coating may cause electric shock or fire.



Do not install the product in places with poor ventilation, for instance, a bookshelf, closet, etc.

- Any increase in the internal temperature may cause fire.



Put down the monitor carefully.

- Failing to do so may damage the monitor.

Do not place the monitor face down.

- This may damage the TFT-LCD surface.

The installation of the bracket must be done by a qualified professional.

- Installing the bracket by unqualified personnel may result in injury.
- Always use the mounting device specified in the owner's manual.

When installing the product, make sure to keep it away from the wall (more than 10 cm / 4 inches) for ventilation purposes.

- Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.

Keep the plastic packaging (bag) out of children's reach.

- The plastic packaging (bag) may cause suffocation if children play with it.

If the height of your monitor is adjustable, do not place any object or part of your body on the stand when lowering it.

- This may cause damage to the product or the person carrying it.

Clean

When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.

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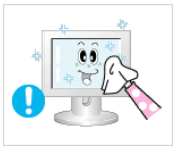
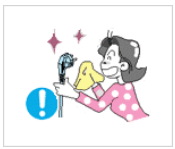
Do not spray water or detergent directly onto the monitor.

- This may cause damage, electric shock or fire.

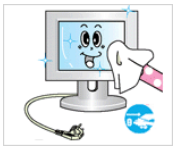


Use the recommended detergent with a smooth cloth.



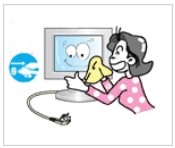
If the connector between the plug and the pin is dusty or dirty, clean it properly using a dry cloth.

- A dirty connector may cause electric shock or fire.



Make sure to unplug the power cord before cleaning the product.

- Otherwise, this may cause electric shock or fire.



Unplug the power cord from the power outlet and wipe the product using a soft, dry cloth.

- Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air freshener, lubricant or detergent.

Others

Do not remove the cover (or back).

- This may cause electric shock or fire.
- Refer to a qualified servicing company.

If your monitor does not operate normally - in particular, if there is any unusual sound or smell coming from the monitor - unplug it immediately and contact an authorized dealer or the Service Center.

- This may cause electric shock or fire.

Keep the product away from places exposed to oil, smoke or moisture; do not install inside a vehicle.

- This may cause a malfunction, electric shock or fire.
- In particular, avoid operating the monitor near water or outdoors where the monitor could be exposed to snow or rain.

If the monitor is dropped or the casing is damaged, turn the monitor off and unplug the power cord. Then contact the Service Center.

- The monitor may malfunction, causing electric shock or fire.

Disconnect the plug from the outlet during storms or lightning or if it is not used for a long period of time.

- Failure to do so may cause electric shock or fire.

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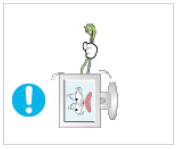


Do not try to move the monitor by pulling only the wire or the signal cable.

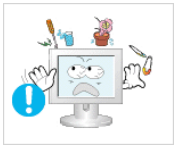
- This may cause a breakdown, electric shock or fire due to damage to the cable.

Do not move the monitor right or left by pulling only the wire or the signal cable.

- This may cause a breakdown, electric shock or fire due to damage to the cable.

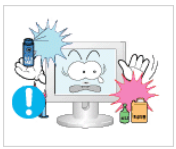
Do not cover the vents on the monitor cabinet.

- Bad ventilation may cause a breakdown or fire.



Do not place water containers, chemical products or small metal objects on the monitor.

- This may cause a malfunction, electric shock or fire.
- If a foreign substance enters the monitor, unplug the power cord and contact the Service Center.



Keep the product away from combustible chemical sprays or inflammable substances.

- This may cause an explosion or fire.

Never insert anything metallic into the monitor openings.

- This may cause electric shock, fire or injury.

Do not insert metal objects such as chopsticks, wire and tools or inflammable objects such as paper or matches into the vent, headphone port or AV ports or etc.

- This may cause electric shock or fire. If an alien substances or water enters the product, turn the product off, unplug the power connector from the wall outlet and contact the Service Center.

When viewing a fixed screen for an extended period of time, residual image or blurriness may appear.

- Change the mode to energy saving mode or set a screensaver to a changing picture when away from the monitor for an extended period of time.

Adjusts the resolution and frequency to the level appropriate for the model.

- An inappropriate resolution may cause undesirable picture quality.

Keep the volume at a comfortable level when using the headphones.

- Excessively loud volume level may damage hearing.

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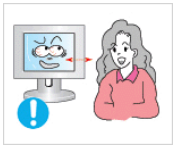
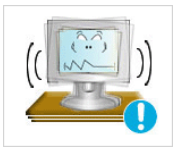


Viewing the monitor continuously at a too close angle may result in damage to your eyesight.

To ease eye strain, take at least a five-minute break after every hour of using the monitor.

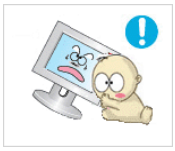


Do not install the product on an unstable, uneven surface or a location prone to vibrations.

- Dropping the product may cause damage to the product or the person carrying it. Using the product in a location prone to vibrations may shorten the lifetime of the product or may cause the product to catch fire.

When moving the monitor, turn off and unplug the power cord. Make sure that all cables, including the antenna cable and cables connected to other devices, are disconnected before moving the monitor.

- Failure to disconnect cables may damage it and cause fire or electric shock.



Place the product out of children’s reach, as they could damage by hanging onto it.

- A falling product may cause injury to the person or even fatality.

When not using the product for an extended period of time, keep the product unplugged.

- Otherwise, this may cause heat emission from the accumulated dirt or degraded insulation, causing electric shock or fire.

Do not place your children's favorite toys or any other objects of interest on the product.

- Children may try to climb on the product to retrieve an object. The product could fall, causing injury or even fatality.

When lifting up or moving the monitor, do not lift the monitor upside down while holding only the stand.

- This may cause your monitor to fall, and become damaged or cause personal injury.

Good Postures When Using the Monitor

Try to maintain a good posture when using the monitor.

- Keep your back straight.
- Keep a distance of about 45 ~ 50 cm between your eyes and the monitor screen. Look at the screen from slightly above it, and have the monitor directly in front of you.
- Tilt the monitor upwards by 10 ~ 20 degrees. Adjust the monitor height so that the top of the monitor is slightly below eye level.

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- Adjust the monitor angle so that there is no reflected light on the screen. Try to maintain your arms perpendicular to your armpits.
- Keep your arms level with the back of your hands.
- Keep the angle of the elbow perpendicular.
- Keep the angle of the knees at more than 90 degree. Do not let your feet fall up from the floor. Adjust the arm position so that it is below the heart.

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Introduction

Package Contents

Note

Please make sure the following items are included with your monitor.

If any items are missing, contact your dealer.

Contact a local dealer to buy optional items.

Unpacking

Type 1

Monitor & Simple stand

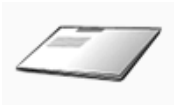
Note

MagicRotation program can not be provided as Simple Stand does not support Pivot function.

Type2

Monitor & HAS stand

Manuals



Quick Setup Guide | Warranty Card (Not available in all locations) | User's Guide

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Cables

D-Sub Cable

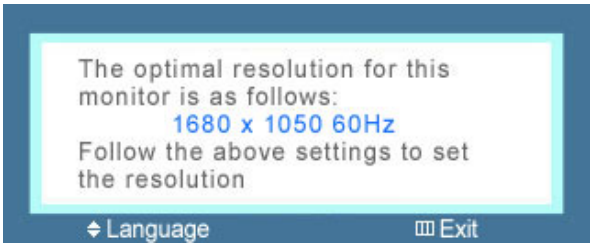
Power Cord

DVI Cable (option)

Audio Cable

Your Monitor

Initial Settings


The optimal resolution for this monitor is as follows:
1680 x 1050 60Hz
Follow the above settings to set the resolution
Language
Exit

Select the language using the up or down key.

The displayed content will disappear after 40 seconds.

Turn the Power button off and on. It will be displayed again.

It can be displayed up to three (3) times. Make sure to adjust the resolution of your PC before reaching the maximum count.

Note

The resolution displayed on the screen is the optimal resolution for this product.

Adjust your PC resolution so that it is the same as the optimal resolution for this product.

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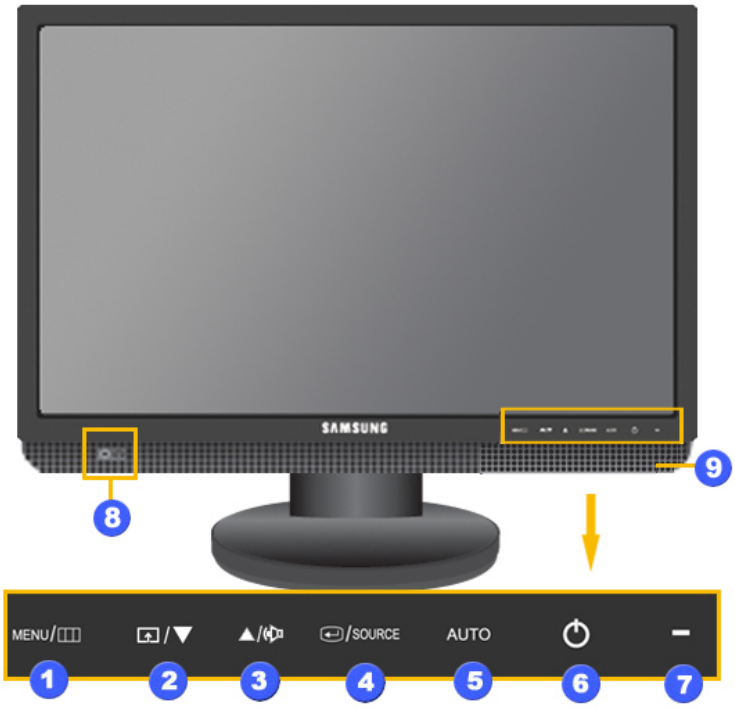
Front



1 *MENU button [MENU/]*

Opens the on-screen menu and exits from the menu. Also use to exit the OSD menu or return to the previous menu.

2 ***Customized Key***[ ]

You can customize key assignment for the Custom button according to your preferences.

Note

You can configure the customized key for a required function via **Setup** > **Customized Key**.

3 ***Volume** button [ ]*

When OSD is not on the screen, push the button to adjust volume.

2,3 *Adjust buttons [▼/▲]*

These buttons allow you to adjust items in the menu.

4 *Enter button [ ] / SOURCE button*

Activates a highlighted menu item.

Push the ' /SOURCE', then selects the video signal while the OSD is off. (When the /SOURCE button is pressed to change the input mode, a message appears in the upper left of the screen displaying the current mode -- analog or digital input signal.)

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Note

If you select the digital mode, you must connect your monitor to the graphic card's DVI port using the DVI cable.

>> Click here to see an animation clip

5 *AUTO button*

Use this button for auto adjustment.

>> Click here to see an animation clip

6 *Power button [⏻]*

Use this button for turning the monitor on and off.

7 *Power Indicator*

This light glows blue during normal operation, and blinking blue once as the monitor saves your adjustments.

Note

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your monitor OFF when it is not needed or when leaving it unattended for long periods.

8 [🎧]Headphone sound output terminal

9 *Speaker*

You can hear sound by connecting the soundcard of your PC to the monitor.

Rear

Note

The configuration at the back of the monitor may vary from product to product.

Simple Stand

HAS Stand

1 *POWER port*

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Connect the power cord for your monitor to the POWER port on the back of the monitor.

2 *AUDIO IN*

Connect the audio cable for your monitor to the audio port on the back of your computer.

3 *DVI IN port*

Connect the DVI Cable to the DVI IN port on the back of your monitor.

4 *RGB IN port*

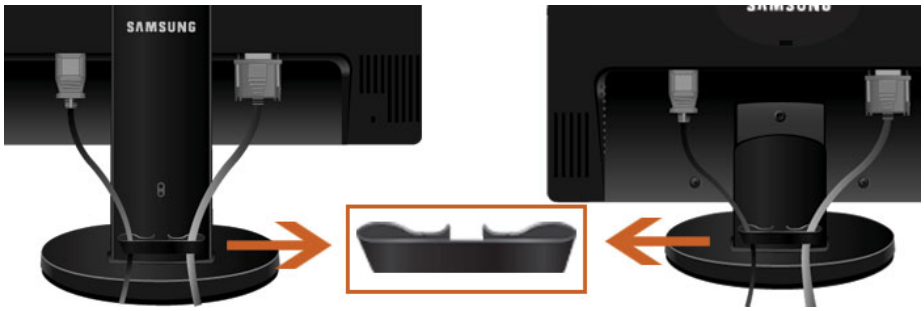
Connect the D-sub cable to the 15-pin, RGB IN port on the back of your monitor.

5 *Kensington Lock*

The Kensington lock is a device used to physically fix the system when using it in a public place. (The locking device has to be purchased separately.) For using a locking device, contact where you purchase it.

Note

See Connecting Cables for further information regarding cable connections.



Cable holding ring

- Fix the cables using the holding ring, as shown in the figure.

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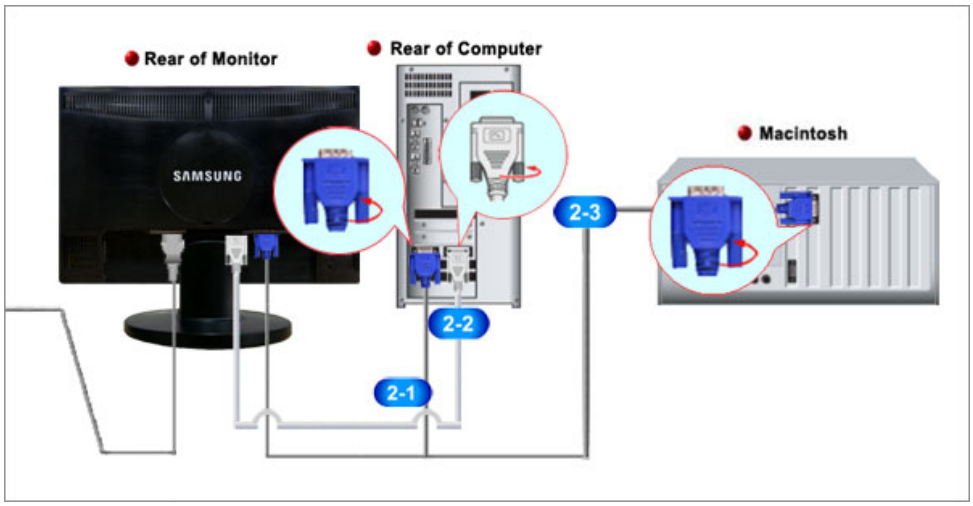
Connections

Connecting Cables



1 Connect the power cord for your monitor to the power port on the back of the monitor.

Plug the power cord for the monitor into a nearby outlet.

2 Use a connection appropriate for your computer.

2-1 Using the D-sub (Analog) connector on the video card.

- Connect the signal cable to the 15-pin, D-sub port on the back of your monitor.

[RGB IN]

2-2 Using the DVI (Digital) connector on the video card.

- Connect the DVI Cable to the DVI IN Port on the back of your Monitor.

[DVI IN]

2-3 Connected to a Macintosh.

- Connect the monitor to the Macintosh computer using the D-sub connection cable.

Note

If the monitor and the computer are connected, you can turn them on and use them.

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Using the Stand

Monitor Assembly

Simple Stand

HAS Stand

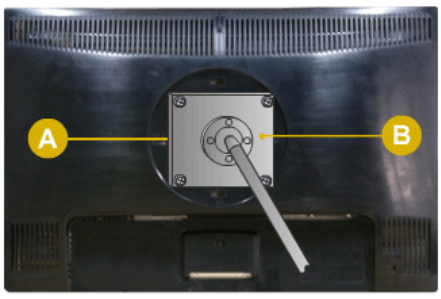
Monitor and Bottom

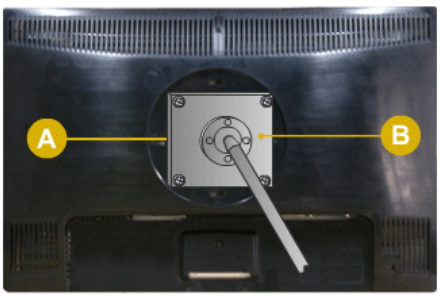
HAS Stand

A. Stand Stopper

Attaching a Base

This monitor accepts a 75.0 mm x 75.0 mm VESA-compliant mounting interface pad.





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Simple Stand HAS Stand

A. Monitor

B. Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove two screws and then remove the stand from the LCD monitor.
4. Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

- Do not use screws longer than the standard dimension, as they may damage the inside of the Monitor.
- For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.
- Do not use screws that do not comply with the VESA standard screw specifications.

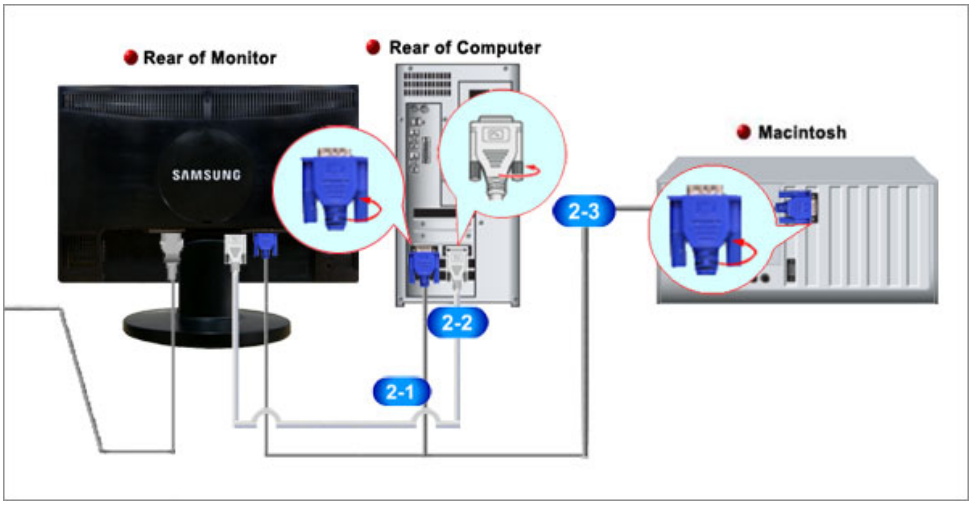
  Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.

  Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.

- To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10 cm away from the wall surface.
- Contact the nearest Samsung Service Center for more information. Samsung Electronics will not be responsible for damages caused by using a base other than those specified.
- Please use Wall Mount according to the International standards.

Connecting Cables

SyncMaster 2243WM



1 Connect the power cord for your monitor to the power port on the back of the monitor.

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Plug the power cord for the monitor into a nearby outlet.

2 Use a connection appropriate for your computer.

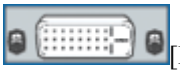
2-1 Using the D-sub (Analog) connector on the video card.

- Connect the signal cable to the 15-pin, D-sub port on the back of your monitor.

[RGB IN]

2-2 Using the DVI (Digital) connector on the video card.

- Connect the DVI Cable to the DVI IN Port on the back of your Monitor.

 [DVI IN]

2-3 Connected to a Macintosh.

- Connect the monitor to the Macintosh computer using the D-sub connection cable.

Note

If the monitor and the computer are connected, you can turn them on and use them.

Using the Stand

Monitor Assembly

Simple Stand

HAS Stand

Monitor and Bottom

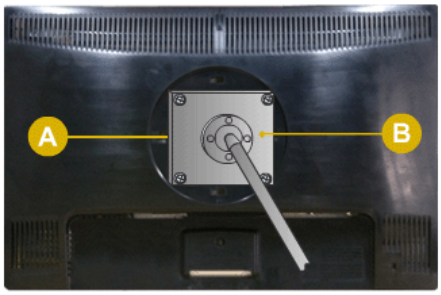
Downloaded from ManualMonitor.com Manuals

HAS Stand

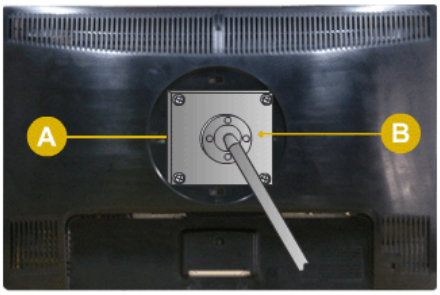
A. Stand Stopper

Attaching a Base

This monitor accepts a 100.0 mm x 100.0 mm VESA-compliant mounting interface pad.



Simple Stand



HAS Stand

A. Monitor

B. Mounting interface pad (Sold separately)

1. Turn off your monitor and unplug its power cord.
2. Lay the LCD monitor face-down on a flat surface with a cushion beneath it to protect the screen.
3. Remove two screws and then remove the stand from the LCD monitor.
4. Align the mounting interface pad with the holes in the rear cover mounting pad and secure it with four screws that came with the arm-type base, wall mount hanger or other base.

- Do not use screws longer than the standard dimension, as they may damage the inside of the Monitor.
- For wall mounts that do not comply with VESA standard screw specifications, the length of the screws may differ depending on their specifications.

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- Do not use screws that do not comply with the VESA standard screw specifications.

  Do not fasten the screws too tightly, as this may damage the product or cause the product to fall, leading to personal injury.

  Samsung is not liable for these kinds of accidents.

- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.

- To mount the monitor on a wall, you should purchase the wall mounting kit that allows you to mount the monitor at least 10 cm away from the wall surface.

- Contact the nearest Samsung Service Center for more information. Samsung Electronics will not be responsible for damages caused by using a base other than those specified.

- Please use Wall Mount according to the International standards.

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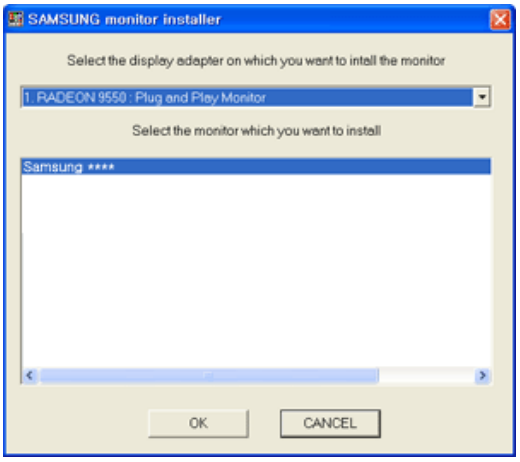
Using the Software

Monitor Driver

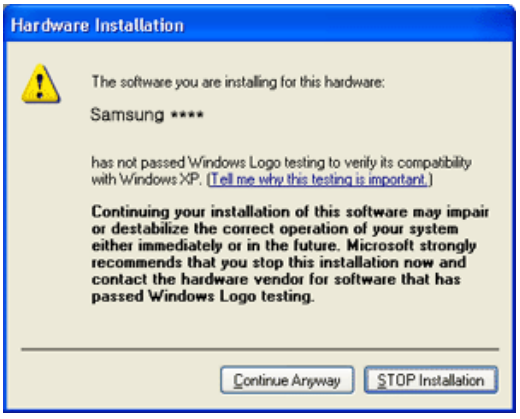
> **Note**
>
> When prompted by the operating system for the monitor driver, insert the CD-ROM included with this monitor. Driver installation is slightly different from one operating system to another. Follow the directions appropriate for the operating system you have.
>
> Prepare a blank disk and download the driver program file at the Internet web site shown here.
> **Internet web site :**
>
> http://www.samsung.com/ (Worldwide)

Installing the Monitor Driver (Automatic)

1. Insert CD into the CD-ROM drive.
2. Click "Windows".
3. Choose your monitor model in the model list, then click the "OK" button.


SAMSUNG monitor installer
Select the display adapter on which you want to intall the monitor
1. RADEON 9550 : Plug and Play Monitor
Select the monitor which you want to install
Samsung ****
OK
CANCEL

4. If you can see following message window, then click the "Continue Anyway" button. Then click "OK" button (Microsoft® Windows® XP/2000 Operating System).


Hardware Installation
The software you are installing for this hardware:
Samsung ****
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

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Note

This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

http://www.samsung.com/

Installing the Monitor Driver (Manual)

Microsoft® Windows Vista™, Operating System

1. Insert your Manual CD into your CD-ROM drive.
2. Click (Start) and "Control Panel". Then, double-click on "Appearance and Personalization".

3. Click "Personalization" and then "Display Settings".

4. Click "Advanced Settings...".

5. Click "Properties" in the "Monitor" tab. If the "Properties" button is deactivated, it means the configuration for your monitor is completed. The monitor can be used as is.

   If the message "Windows needs..." is displayed, as shown in the figure below, click "Continue".

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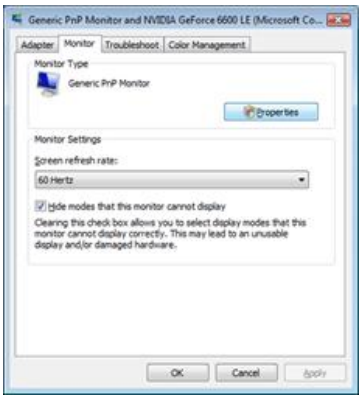
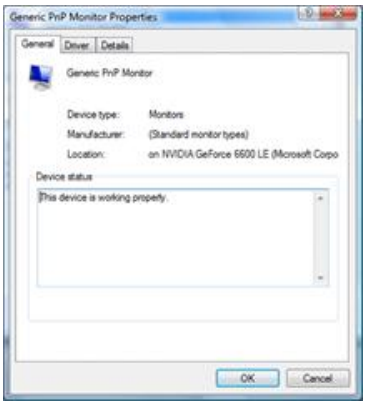

Generic PnP Monitor and NVIDIA GeForce 6600 LE (Microsoft Co...
Adapter
Monitor
Troubleshoot
Color Management
Monitor Type
Generic PnP Monitor
Properties
Monitor Settings
Screen refresh rate:
60 Hertz
Hide modes that this monitor cannot display
Clearing this check box allows you to select display modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
OK
Cancel
Apply

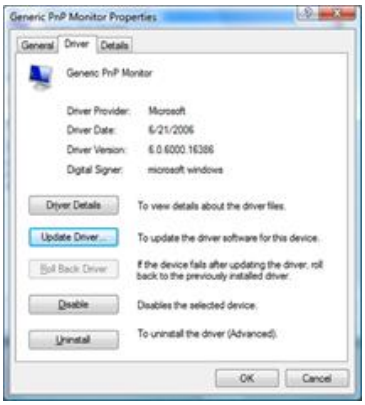
Note

This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

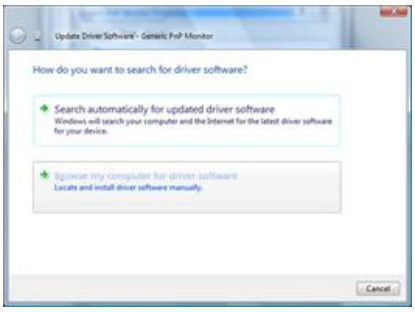
The certified driver will be posted on Samsung Monitor homepage.

6. Click "Update Driver..." in the "Driver" tab.





7. Check the "Browse my computer for driver software" checkbox and click "Let me pick from a list of device drivers on my computer".


How do you want to search for driver software?
Search automatically for updated driver software
Browse my computer for driver software
Locate and install driver software manually.
Cancel

Browse for driver software on your computer
Include subfolders
Browse...
Let me pick from a list of device drivers on my computer
Next
Cancel

8. Click "Have Disk..." and select the folder (for example, D:\Drive) where the driver setup file is located, and click "OK".

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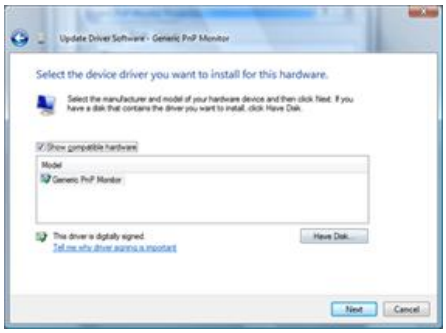
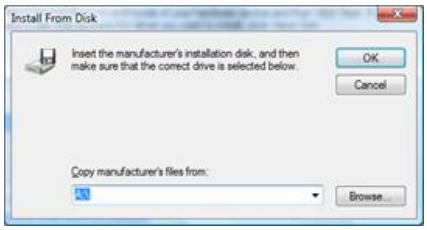
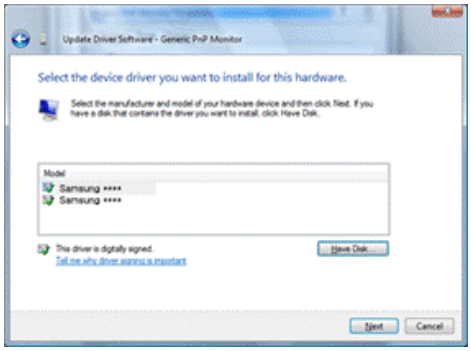
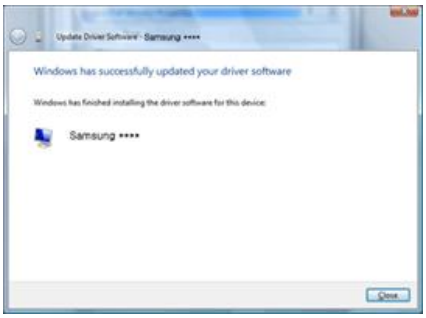


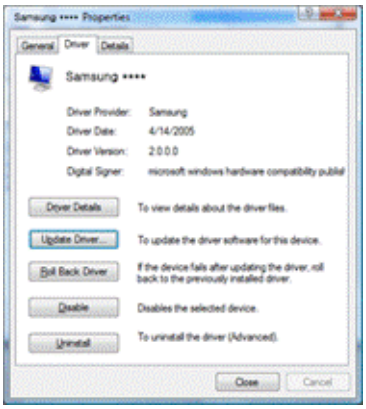

Install From Disk
Insert the manufacturer's installation disk, and then make sure that the correct drive is selected below.
OK
Cancel
Copy manufacturer's files from:
Browse...

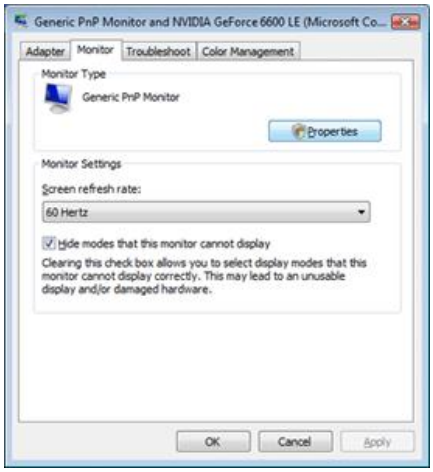
9. Select the model that matches your monitor from the list of monitor models on the screen, and click "Next".

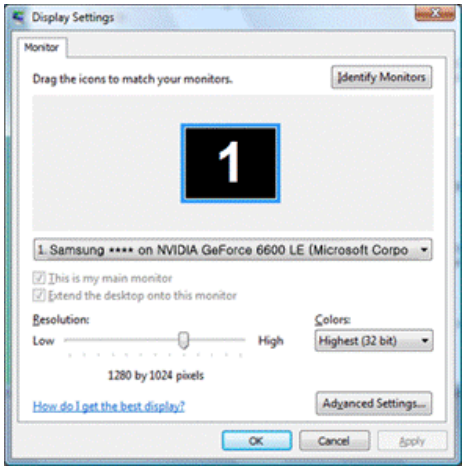


10. Click "Close" → "Close" → "OK" → "OK" on the following screens displayed in sequence.






Generic PnP Monitor and NVIDIA GeForce 6600 LE (Microsoft Co...
Adapter
Monitor
Troubleshoot
Color Management
Monitor Type
Generic PnP Monitor
Properties
Monitor Settings
Screen refresh rate:
60 Hertz
Hide modes that this monitor cannot display
Clearing this check box allows you to select display modes that this monitor cannot display correctly. This may lead to an unusable display and/or damaged hardware.
OK
Cancel
Apply

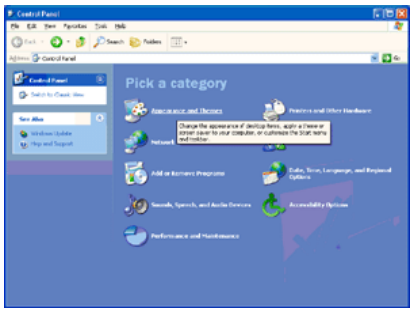


Microsoft® Windows® XP Operating System

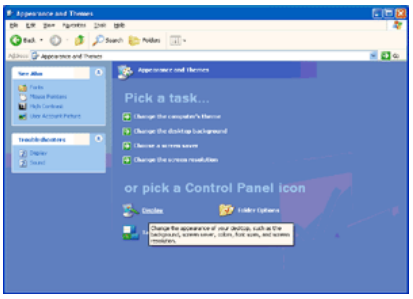
Downloaded from ManualMonitor.com Manuals

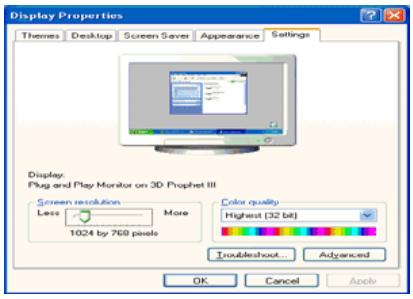
1. Insert CD into the CD-ROM drive.

2. Click "Start" → "Control Panel" then click the "Appearance and Themes" icon.

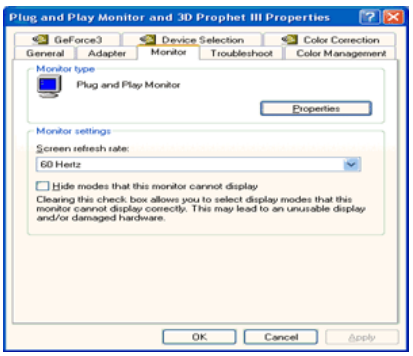


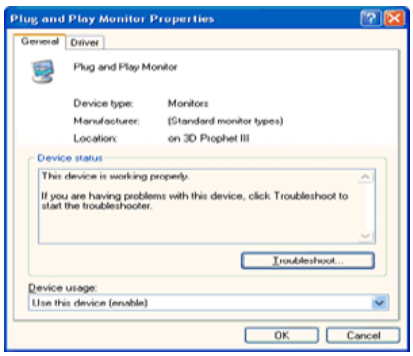
3. Click "Display" icon and choose the "Settings" tab then click "Advanced...".



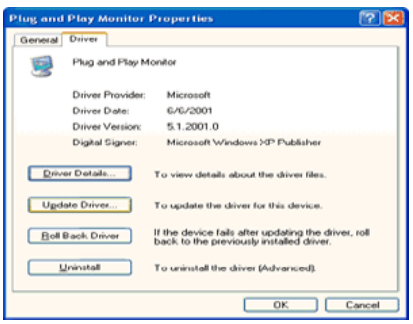


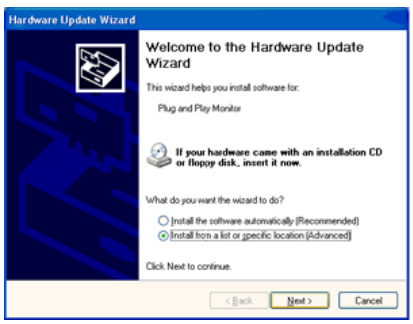
4. Click the "Properties" button on the "Monitor" tab and select "Driver" tab.





5. Click "Update Driver..." and select "Install from a list or..." then click "Next" button.




Hardware Update Wizard
Welcome to the Hardware Update Wizard
This wizard helps you install software for:
Plug and Play Monitor
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

6. Select "Don't search, I will..." then click "Next" and then click "Have disk".

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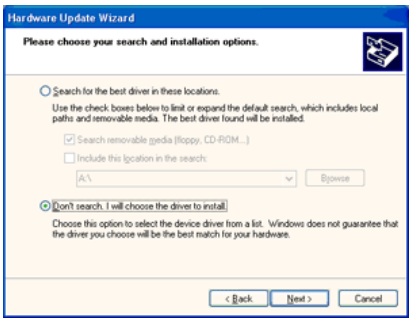
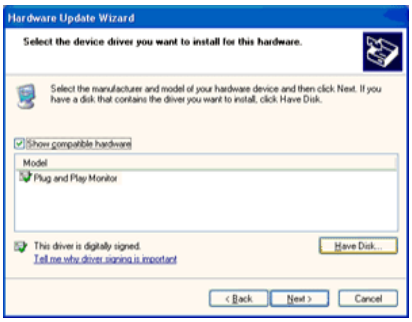
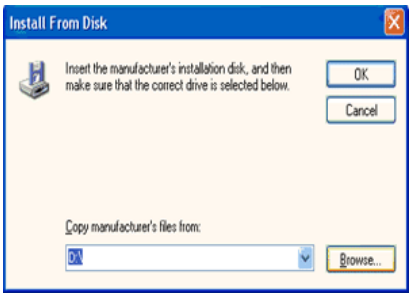
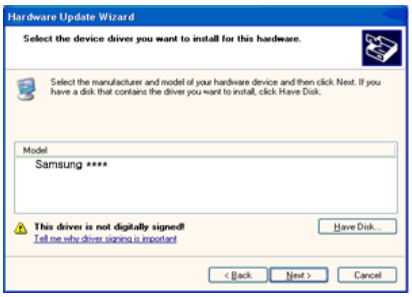

Hardware Update Wizard
Please choose your search and installation options.
Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM...)
Include this location in the search:
A:\
Browse
Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back
Next >
Cancel

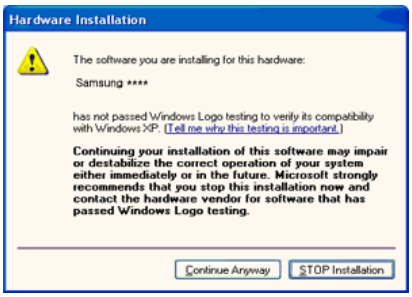

Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Show compatible hardware
Model
Plug and Play Monitor
This driver is digitally signed.
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

7. Click the "Browse" button then choose A:(D:\Driver) and choose your monitor model in the model list and click the "Next" button.




Hardware Update Wizard
Select the device driver you want to install for this hardware.
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Model
Samsung ****
This driver is not digitally signed!
Tell me why driver signing is important
Have Disk...
< Back
Next >
Cancel

8. If you can see following message window, then click the "Continue Anyway" button. Then click "OK" button.


Hardware Installation
The software you are installing for this hardware:
Samsung ****
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

Note

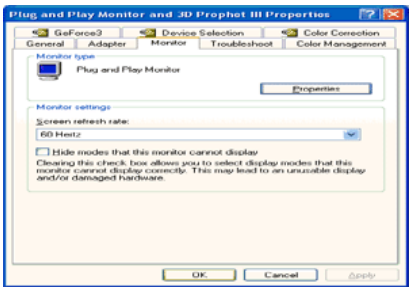
This monitor driver is under certifying MS logo, and this installation doesn't damage your system.

The certified driver will be posted on Samsung Monitor homepage.

http://www.samsung.com/

9. Click the "Close" button then click "OK" button continually.

Downloaded from ManualMonitor.com Manuals



10. Monitor driver installation is completed.

Microsoft® Windows® 2000 Operating System

When you can see "Digital Signature Not Found" on your monitor, follow these steps.

1. Choose "OK" button on the "Insert disk" window.
2. Click the "Browse" button on the "File Needed" window.
3. Choose A:(D:\Driver) then click the "Open" button and then click "OK" button.

How to install

1. Click "Start", "Setting", "Control Panel".
2. Double click the "Display" icon.
3. Select the "Settings" tab and click "Advanced Properties" button.
4. Choose "Monitor".

   Case1 : If the "Properties" button is inactive, it means your monitor is properly configured. Please stop installation

   Case2 : If the "Properties" button is active, click the "Properties" button then follow next steps continually.
5. Click "Driver" and then click on "Update Driver..." then click on the "Next" button.
6. Choose "Display a list of the known drivers for this device so that I can choose a specific driver" then click "Next" and then click "Have disk".
7. Click the "Browse" button then choose A:(D:\Driver).
8. Click the "Open" button, then click "OK" button.
9. Choose your monitor model and click the "Next" button then click "Next" button.
10. Click the "Finish" button then the "Close" button.

    If you can see the "Digital Signature Not Found" window then click the "Yes" button. And click the "Finish" button then the "Close" button.

Microsoft® Windows® Millennium Operating System

1. Click "Start", "Setting", "Control Panel".
2. Double click the "Display" icon.
3. Select the "Settings" tab and click "Advanced Properties" button.

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4. Select the "Monitor" tab.
5. Click the "Change" button in the "Monitor Type" area.
6. Choose "Specify the location of the driver".
7. Choose "Display a list of all the driver in a specific location..." then click "Next" button.
8. Click the "Have Disk" button.
9. Specify A:\(D:\driver) then click "OK" button.
10. Select "Show all devices" and choose the monitor that corresponds to the one you connected to your computer and click "OK".
11. Continue choosing "Close" button and "OK" button until you close the Display Properties dialogue box.

Microsoft® Windows® NT Operating System

1. Click "Start", "Settings", "Control Panel", and then double-click "Display" icon.
2. In Display Registration Information window, click Settings Tab and then click "All Display Modes".
3. Select a mode that you wish to use (Resolution, Number of colors and Vertical frequency) and then click "OK".
4. Click "Apply" button if you see the screen working normally after clicking "Test". If the screen is not normal, change to a different mode (lower mode of resolution, colors or frequency).

Note

If there is no Mode at All Display Modes, select the level of resolution and vertical frequency by referring to the Preset Timing Modes in the user guide.

Linux Operating System

To execute X-Window, you need to make the X86Config file, which is a type of system setting file.

1. Press "Enter" at the first and the second screen after executing the X86Config file.
2. The third screen is for setting your mouse.
3. Set a mouse for your computer.
4. The next screen is for selecting a keyboard.
5. Set a Keyboard for your computer.
6. The next screen is for setting your monitor.
7. First of all, set a horizontal frequency for your monitor. (You can enter the frequency directly.)
8. Set a vertical frequency for your monitor. (You can enter the frequency directly.)
9. Enter the model name of your monitor. This information will not affect the actual execution of X-Window.
10. You have finished setting up your monitor. Execute X-Window after setting other requested hardware.

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Natural Color

Natural Color Software Program

One of the recent problems in using a computer is that the color of the images printed out by a printer or other images scanned by a scanner or a digital camera are not the same as those shown on the monitor. The Natural Color S/W is the very solution for this problem. It is a color administration system developed by Samsung Electronics in association with Korea Electronics & Telecommunications Research Institute (ETRI). This system is available only for Samsung monitors and makes the color of the images on the monitor the same as the printed or scanned images. For more information, refer to Help (F1) in the software program.

How to install the Natural Color software

Insert the CD included with the Samsung monitor into the CD-ROM Drive. Then, the initial screen of the program Natural Color will be executed. Click Natural Color on the initial screen to install the Natural Color software.

To install the program manually, insert the CD included with the Samsung monitor into the CD-ROM Drive, click the [Start] button of Windows and then select [Run...]. Enter D:\color\NCProSetup.exe and then press the [Enter] key. (If the drive where the CD is inserted is not D:\, enter the applicable drive.)

How to delete the Natural Color software program

Select "Setting/Control Panel" on the "Start" menu and then double-click "Add/Delete a program". Select Natural Color from the list and then click the "Add/Delete" button.

MagicTune™

MagicTune™ HELP

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Installation

1. Insert the installation CD into the CD-ROM drive.
2. Click the MagicTune™ installation file.

   Note

   If the popup window to install the software for the main screen is not displayed, proceed with the installation using the MagicTune executable file on the CD.
3. Select installation Language, Click "Next".
4. When the Installation Shield Wizard window appears, click "Next".
5. Select "I agree to the terms of the license agreement" to accept the terms of use.
6. Choose a folder to install the MagicTune™ program.
7. Click "Install".
8. The "Installation Status" window appears.
9. Click "Finish".
10. When the installation is complete, the MagicTune™ executable icon appears on your desktop. Double-click the icon to start the program.

MagicTune™ execution icon may not appear depending on specification of computer system or monitor. If that happens, press F5 Key.

Installation Problems

The installation of MagicTune™ can be affected by such factors as the video card, motherboard and the network environment.

System Requirements

OS

- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

It is recommended using MagicTune™ in Windows® 2000 or later.

Hardware

- 32 MB Memory above
- 60 MB Hard disk space above

For more information, visit the MagicTune™ website.

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Uninstall

The MagicTune™ program can be removed only by using the "Add or Remove Programs" option of the Windows® Control Panel.

Perform the following steps remove MagicTune™.

1. Go to [Task Tray] → [Start] → [Settings] and select [Control Panel] in the menu. If the program runs on Windows® XP, go to [Control Panel] in the [Start] menu.
2. Click the "Add or Remove Programs" icon in Control Panel.
3. In the "Add or Remove Programs" screen, scroll down to find "MagicTune™." Click on it to highlight it.
4. Click the "Change/Remove" button to remove the program.
5. Click "Yes" to begin the uninstall process.
6. Wait until the "Uninstall Complete" dialog box appears.

Note

Visit the MagicTune™ website for technical support for MagicTune™, FAQs (questions and answers) and software upgrades.

The MagicTune™ program is an additional program for monitor products.
Some computing systems that install either an older or the latest video driver are not compatible with MagicTune™.
Please visit the MagicTune™ Website for technical support for MagicTune™.

Specifications subject to change without notice.
MagicTune™ is a trademark of SAMSUNG ELECTRONICS CO., Inc.
Windows™ is a registered trademark of Microsoft Corp.
Other trademarks are property of their respective holders.

MagicRotation

MagicRotation Help

Installation

1. Insert the installation CD into the CD-ROM drive.
2. Click the MagicRotation installation file.
   Note

   If the popup window to install the software for the main screen is not displayed, proceed with the installation using the MagicTune executable file on the CD.
3. Select installation Language, Click "Next".
4. When the Installation Shield Wizard window appears, click "Next".
5. Select "I agree to the terms of the license agreement" to accept the terms of use.

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6. Choose a folder to install the MagicRotation program.
7. Click "Install".
8. The "Setup Status" window appears.
9. Click "Finish".

   Have to reboot the system in order for the MagicRotation to work properly.
10. When the installation is complete, the MagicRotation executable icon appears on your desktop.

Installation Problems

The installation of MagicRotation can be affected by such factors as the video card, motherboard and the network environment.

Limitation

1. The "Display Driver" should be properly loaded for the MagicRotation to work properly.

   The installed "Display Driver" should be the latest driver supplied by the vendor.
2. If some applications like Windows Media Player, Real Player, etc. are not displaying movie files properly in 90, 180 and 270 orientations then do the following :

   - Close the application.
   - Select the Orientation (90, 180, 270) you want to view the application.
   - Relaunch the application.

   In most cases this should fix the problem.
3. User Applications using OpenGL and DirectDraw (3D drawing) will not function as per the orientation mode selected (90, 180, 270).

   e.g. 3D games
4. DOS based applications in Full Screen Mode will not function as per the orientation mode selected (90, 180, 270).
5. Dual is not supported in Windows®, 98, ME, NT 4.0.
6. MagicRotation does not provide support for 24 bits per pixel (Bit depth/Color Quality).
7. If you are changing your Graphic Card it is recommended that you uninstall the MagicRotation Software before doing so.

System Requirements

OS

- Windows 98 SE
- Windows ME

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- Windows NT 4.0
- Windows 2000
- Windows XP Home Edition
- Windows XP Professional
- Windows Vista™

Hardware

- 128 MB Memory above (recommended)
- 25 MB Hard disk space above

Service Packs

- It is recommended that your System has the latest Service Pack installed.
- For Windows®, NT 4.0, it is recommended to install Internet Explorer 5.0 and above with Active Desktop component.

For more information, visit the MagicRotation website.

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Uninstall

The MagicRotation program can be removed only by using the "Add or Remove Programs" option of the Windows® Control Panel.

Perform the following steps remove MagicRotation.

1. Go to [Task Tray] → [Start] → [Settings] and select [Control Panel] in the menu. If the program runs on Windows® XP, go to [Control Panel] in the [Start] menu.
2. Click the "Add or Remove Programs" icon in Control Panel.
3. In the "Add or Remove Programs" screen, scroll down to find "MagicRotation." Click on it to highlight it.
4. Click the "Change/Remove" button to remove the program.
5. Click "Yes" to begin the uninstall process.
6. Wait until the "Uninstall Complete" dialog box appears.
7. After uninstall restart the system to complete the uninstallation.

Note

Visit the MagicRotation website for technical support for MagicRotation, FAQs (questions and answers) and software upgrades.

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Adjusting the Monitor

Direct Functions

AUTO

When the 'AUTO' button is pressed, the auto adjustment screen appears as shown in the animated screen on the center.

Auto adjustment allows the monitor to self-adjust to the incoming Analog signal. The values of **Fine**, **Coarse** and **Position** are adjusted automatically.

(Available in **Analog** mode only)

To make the automatic adjustment function sharper, execute the 'AUTO' function while the AUTO PATTERN is on.

- If auto adjustment does not work properly, press 'AUTO' button again to adjust picture with more accuracy.

- If you change resolution in the control panel, auto function will be executed automatically.

OSD Lock & Unlock

When pressing the AUTO button after locking the OSD

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When pressing the MENU button after locking the OSD

This is the function that locks the OSD in order to keep the current states of settings or prevent others from adjusting the current settings.

Lock : Hold down the MENU button for more than five (5) seconds to activate the OSD adjustment lock function.

Unlock : Hold down the MENU button for more than five (5) seconds to deactivate the OSD adjustment lock function.

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Note

Though the OSD adjustment lock function is activated, you can still adjust the brightness and contrast, and adjust **Customized Key** ( ) using the Direct button.

Customized key

You can customize key assignment for the Custom button according to your preferences.

To view the operating screen displayed when pressing the [ ] button after configuring the customized key for a function, click the name of each function.

(Image Size - MagicBright - MagicColor - Color Effect)

Note

You can configure the customized key for a required function via **Setup** > **Customized Key**.

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Volume

When OSD is not on the screen, push the button to adjust volume.

SOURCE

Selects the video signal while the OSD is off.

OSD Function

Picture **Brightness** **Contrast** **MagicBright**

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Color	**MagicColor**	**Color Tone**	**Color Con-trol**	**Color Effect**	**Gamma**
Image	**Coarse**	**Fine**	**Sharpness**	**H-Position**	**V-Position**
OSD	**Language**	**H-Position**	**V-Position**	**Transparen-cy**	**Display Time**
Setup	**Reset**	**Customized Key**	**Off Timer**	**Auto Source**	**Image Size**
Information					

Picture

Brightness

(Not available in **MagicBright** mode of **Dynamic Contrast**.)

You can use the on-screen menus to change the brightness according to personal preference.

MENU → ↵ → ↵ → ▲, ▼ → MENU

Contrast

(Not available in **MagicBright** mode of **Dynamic Contrast**.)

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You can use the on-screen menus to change the contrast according to personal preference.

(Not available in **MagicColor** mode of **Full** and **Intelligent**.)

MENU → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

MagicBright

Push the button to circle through available preconfigured modes.

MagicBright is a new feature providing optimum viewing environment depending on the contents of the image you are watching. Currently seven different modes are available: **Custom**, **Text**, **Internet**,

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Game, **Sport**, **Movie** and **Dynamic Contrast**. Each mode has its own pre-configured brightness value. You can easily select one of seven settings by simply pressing **Customized Key** control button.

- **Custom**

  Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste.

  If this is the case, adjust the brightness and contrast by using the OSD menu.

- **Text**

  For documentations or works involving heavy text.

- **Internet**

  For working with a mixture of images such as texts and graphics.

- **Game**

  For watching motion pictures such as a game.

- **Sport**

  For watching motion pictures such as a sport.

- **Movie**

  For watching motion pictures such as a DVD or Video CD.

- **Dynamic Contrast**

  Dynamic Contrast is to automatically detect distribution of inputted visual signal and adjust to create optimum contrast.

MENU → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

Color

(Not available in **MagicBright** mode of **Dynamic Contrast**.)

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MagicColor

MagicColor is a new technology that Samsung has exclusively developed to improve digital image and to display natural color more clearly without disturbing image quality.

- **Off** - Returns to the original mode.
- **Demo** - The screen before applying **MagicColor** appears on the right and the screen after applying **MagicColor** appears on the left.
- **Full** - Displays not only vivid natural color but also more realistic natural skin color with clearness.
- **Intelligent** - Displays vivid natural color with clearness.

MENU → ▲ , ▼ → ↵ → ↵ → ▲ , ▼ → MENU

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Color Tone

The tone of the color can be changed and one of four modes can be selected.

- **Cool** - Makes whites bluish.
- **Normal** - Keeps whites white.
- **Warm** - Makes whites reddish.
- **Custom** - Select this mode when you want to adjust the image according to your preferences.

(Not available in **MagicColor** mode of **Full** and **Intelligent**.)

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

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Color Control

Adjusts individual **Red**, **Green**, **Blue** color balance.

(Not available in **MagicColor** mode of **Full** and **Intelligent**.)

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

Color Effect

You can change the overall mood by changing the screen colors.

(Not available in **MagicColor** mode of **Full** and **Intelligent**.)

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- **Off** • **Grayscale** • **Green** • **Aqua** • **Sepia**

- **Off** - This applies an achromatic color to the screen to adjust the screen effects.
- **Grayscale** - The default colors of black and white are displayed.
- **Green** - This applies the green color effect to a black and white screen.
- **Aqua** - This applies the aqua color effect to a black and white screen.
- **Sepia** - This applies the Sepia color effect to a black and white screen.

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

Gamma

Gamma correction changes the luminance of the colors with intermediate luminance.

- **Mode 1** • **Mode 2** • **Mode 3**

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

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Image

Coarse

Removes noise such as vertical stripes.

Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu.

(Available in **Analog** mode only)

MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → MENU

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Fine

Removes noise such as horizontal stripes.

If the noise persists even after **Fine** tuning, repeat it after adjusting the frequency (clock speed).

(Available in **Analog** mode only)

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

Sharpness

Changes the clearance of image.

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(Not available in **MagicColor** mode of **Full** and **Intelligent**.)

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

H-Position

Changes the horizontal position of the monitor's entire display.

(Available in **Analog** mode only)

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

V-Position

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Changes the vertical position of the monitor's entire display.

(Available in **Analog** mode only)

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

OSD

Language

You can choose one of nine languages.

- English, Deutsch, Español, Français, Italiano, Svenska, Русский , Português , Türkçe

Note

The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

MENU → ▲, ▼ → ↵ → ↵ → ▲, ▼ → MENU

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H-Position

You can change the horizontal position where the OSD menu appears on your monitor.

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

V-Position

You can change the vertical position where the OSD menu appears on your monitor.

MENU → ▲, ▼ → ↵ → ▲, ▼ → ↵ → ▲, ▼ → MENU

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Transparency

Change the transparency of the background of the OSD.

- **Off**
- **On**

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

Display Time

The menu will be automatically turned off if no adjustments are made for a certain time period.

You can set the amount of time the menu will wait before it is turned off.

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- **5 sec**
- **10 sec**
- **20 sec**
- **200 sec**

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

Setup

Reset

Reverts the product settings to factory defaults.

- **No**
- **Yes**

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → MENU

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Customized Key

You can specify a function which will be activated when the **Customized Key** ( )is pressed.

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ →MENU

Off Timer

The monitors will turn off automatically at the specified time.

- **Off**
- **On**

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MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

Auto Source

Select **Auto Source** for the monitor to automatically select the signal source.

- **Auto**
- **Manual**

MENU → ▲ , ▼ → ↵ → ↵ → ▲ , ▼ → MENU

Image Size

You can change the size of the screen displayed on your monitor.

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- **Auto** • **Wide**

- **Auto** - The screen is displayed in accordance with the screen aspect ratio of the input signals.
- **Wide** - A full screen is displayed regardless of the screen aspect ratio of the input signals.

Note

- Signals not available in the standard mode table are not supported.
- If the wide screen which is the optimal resolution for the monitor is set on your PC, this function is not performed.

MENU → ▲ , ▼ → ↵ → ▲ , ▼ → ↵ → ▲ , ▼ → MENU

Information

Shows a video source, display mode on the OSD screen.

MENU → ▲ , ▼ → MENU

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Troubleshooting

Self-Test Feature Check

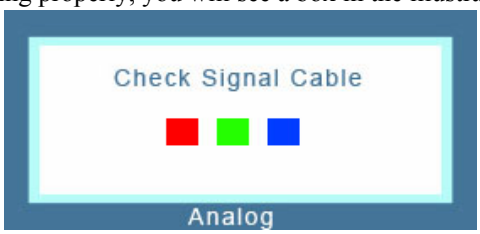
Note

Your monitor provides a self test feature that allows you to check whether your monitor is functioning properly.

Self-Test Feature Check

1. Turn off both your computer and the monitor.
2. Unplug the video cable from the back of the computer.
3. Turn on the monitor.

   If the monitor is functioning properly, you will see a box in the illustration below.



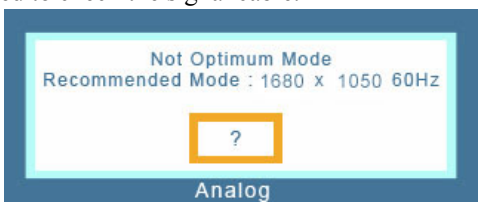
   This box appears during normal operation if the video cable becomes disconnected or damaged.

4. Turn off your monitor and reconnect the video cable; then turn on both your computer and the monitor.

If your monitor screen remains blank after using the previous procedure, check your video controller and computer system; *your monitor is functioning properly.*

Warning Messages

If there is something wrong with the input signal, a message appears on the screen or the screen goes blank although the power indicator LED is still on. The message may indicate that the monitor is out of scan range or that you need to check the signal cable.



Environment

The location and the position of the monitor may influence the quality and other features of the monitor.

If there are any sub woofer speakers near the monitor, unplug and relocate the woofer to another room.

Remove all electronic devices such as radios, fans, clocks and telephones that are within 3 feet (one meter) of the monitor.

Useful Tips

A monitor recreates visual signals received from the computer. Therefore, if there is a problem with the computer or the video card, this can cause the monitor to become blank, have poor coloring, become

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noisy, and video mode not supported, etc. In this case, first check the source of the problem, and then contact the Service Center or your dealer.

Judging the monitor's working condition

If there is no image on the screen or a "**Not Optimum Mode**", "**Recommended Mode** 1680 x 1050 60 Hz" message comes up, disconnect the cable from the computer while the monitor is still powered on.

If there is a message coming up on the screen or if the screen goes white, this means the monitor is in working condition.

In this case, check the computer for trouble.

Check List

Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

No images on the screen. I cannot turn on the monitor.

Q: Is the power cord connected properly?

A: Check the power cord connection and supply.

Q: Can you see "**Check Signal Cable**" on the screen?

A: (Connected using the D-sub cable)

Check the signal cable connection.

(Connected using the DVI cable)

If you still see an error message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog.

If you still see an (error) message on the screen when the monitor is connected properly, check to see if the monitor status is set to analog. Press '↵/SOURCE' button to have the monitor double-check the input signal source.

Q: If the power is on, reboot the computer to see the initial screen (the login screen), which can be seen.

A: If the initial screen (the login screen) appears, boot the computer in the applicable mode (the safe mode for Windows ME/XP/2000) and then change the frequency of the video card.

(Refer to the Preset Timing Modes)

If the initial screen (the login screen) does not appear, contact the Service Center or your dealer.

Q: Can you see "**Not Optimum Mode**", "**Recommended Mode** 1680 x 1050 60 Hz" on the screen?

A: You can see this message when the signal from the video card exceeds the maximum resolution and frequency that the monitor can handle properly.

A: Adjust the maximum resolution and frequency that the monitor can handle properly.

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A: If the display exceeds SXGA or 75 Hz, a "**Not Optimum Mode**", "**Recommended Mode** 1680 x 1050 60 Hz" message is displayed. If the display exceeds 85 Hz, the display will work properly but the "**Not Optimum Mode**", "**Recommended Mode** 1680 x 1050 60 Hz" message appears for one minute and then disappears.

Please change to the recommended mode during this one-minute period.

(The message is displayed again if the system is rebooted.)

Q: There is no image on the screen. Is the power indicator on the monitor blinking at 1 second intervals?

A: The monitor is in PowerSaver mode.

A: Press a key on the keyboard to activate the monitor and restore the image on the screen.

A: If there is still no image, press the '↵/SOURCE' button. Then press any key on the keyboard again to activate the monitor and restore the image on the screen.

Q: Connected using the DVI cable?

A: You may get a blank screen if you boot the system before you connect the DVI cable, or disconnect and then reconnect the DVI cable while the system is running as certain types of graphic cards do not send out video signals. Connect the DVI cable and then reboot the system.

I cannot see the On Screen Display.

Q: Have you locked the On Screen Display (OSD) Menu to prevent changes?

A: Unlock the OSD by pressing the [MENU/ ▥] button for at least 5 seconds.

The screen shows strange colors or just black and white.

Q: Is the screen displaying only one color as if looking at the screen through a cellophane paper?

A: Check the signal cable connection.

A: Make sure the video card is fully inserted in its slot.

Q: Have the screen colors become strange after running a program or due to a crash between applications?

A: Reboot the computer.

Q: Has the video card been set properly?

A: Set the video card by referring to the video card manual.

The screen suddenly has become unbalanced.

Q: Have you changed the video card or the driver?

A: Adjust screen image position and size using the OSD.

Q: Have you adjusted the resolution or frequency to the monitor?

A: Adjust the resolution and frequency at the video card.

(Refer to the Preset Timing Modes).

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Q: The screen can be unbalanced due to the cycle of the video card signals. Readjust Position by referring to the OSD.

The screen is out of focus or OSD cannot be adjusted.

Q: Have you adjusted the resolution or frequency on the monitor?

A: Adjust the resolution and frequency of the video card.

(Refer to the Preset Timing Modes).

LED is blinking but no images on the screen.

Q: Is the frequency properly adjusted when checking the Display Timing on the menu?

A: Adjust the frequency properly by referring to the video card manual and the Preset Timing Modes.

(The maximum frequency per resolution may differ from product to product.)

There are only 16 colors shown on the screen. The screen colors have changed after changing the video card.

Q: Have the Windows colors been set properly?

A: Windows XP :

Set the resolution at the Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000 :

Set the resolution at the Control Panel → Display → Settings.

Q: Has the video card been set properly?

A: Set the video card by referring to the video card manual.

There is a message that reads "Unrecognized monitor, Plug & Play (VESA DDC) monitor found".

Q: Have you installed the monitor driver?

A: Install the monitor driver according to the Driver Installation Instructions.

Q: See the video card manual to see if the Plug & Play (VESA DDC) function can be supported.

A: Install the monitor driver according to the Driver Installation Instructions.

Problems related to Audio.

Q: No sound.

A: Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and the audio-out port on your sound card.

(Refer to Connecting Cables).

Check the volume level.

Q: Sound level is too low.

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A: Check the volume level.

If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.

Check when MagicTune™ does not function properly.

Q: MagicTune™ feature is found only on PC (VGA) with Window OS that supports Plug and Play.

A: To check whether your PC is available for MagicTune™ feature, follow the steps below (When Windows is XP);

Control Panel → Performance and Maintenance → System → Hardware → Device Manager → Monitors → After deleting Plug and Play monitor, find 'Plug and Play monitor' by searching new Hardware.

A: MagicTune™ is an additional software for the monitor. Some graphic cards may not support your monitor. When you have a problem with the graphic card, visit our website to check the compatible graphic card list provided.

http://www.samsung.com/monitor/magictune

MagicTune™ doesn't work properly.

Q: Have you changed your PC or video graphic card?

A: Download the latest program. The program can be downloaded http://www.samsung.com/monitor/magictune

Q: Did you install the program?

A: Reboot the computer after installing the program for the first time. If a copy of the program is already installed, remove it, reboot the computer, and then install the program again. You need to reboot the computer for it to operate normally after installing or removing the program.

Note

Visit the MagicTune™ website and download the installation software for MagicTune™ MAC.

Check the following items if there is trouble with the monitor.

Check if the power cord and the video cables are properly connected to the computer.

Check if the computer beeps more than 3 times when booting.

(If it does, request an a service for the main board of the computer.)

If you installed a new video card or if you assembled the PC, check if the installed the adapter(video) driver and the monitor driver.

Check if the scanning ratio of the video screen is set to between 56 Hz ~ 75 Hz.

(Do not exceed 75 Hz when using the maximum resolution.)

If you have problems in installing the adapter (video) driver, boot the computer in Safe Mode, remove the Display Adapter in the "Control Panel → System → Device Administrator" and then reboot the computer to reinstall the adapter (video) driver.

Note

If problems repeatedly occur, contact an authorized service center.

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Q & A

Q: How can I change the frequency?

A: The frequency can be changed by reconfiguring the video card.

A: Note that video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)

Q: How can I adjusts the resolution?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000:

Set the resolution in the Control Panel → Display → Settings.

* Contact the video card manufacturer for details.

Q: How can I set the Power Saving function?

A: Windows XP:

Set the resolution in the Control Panel → Appearance and Themes → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

A: Windows ME/2000:

Set the resolution at the Control Panel → Display → Screen Saver.

Set the function in the BIOS-SETUP of the computer. (Refer to the Windows / Computer Manual).

Q: How can I clean the outer case/LCD Panel?

A: Disconnect the power cord and then clean the monitor with a soft cloth, using either a cleaning solution or plain water.

Do not leave any detergent or scratches on the case. Do not let any water enter the monitor.

Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

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Specifications

General

General	
Model Name	SyncMaster 2043WM

LCD Panel	
Size	20 inch (51 cm)
Display area	433.44 mm (H) x 270.9 mm (V)
Pixel Pitch	0.258 mm (H) x 0.258 mm (V)

Synchronization	
Horizontal	30 ~ 81 kHz
Vertical	56 ~ 75 Hz

Display Color

16.7M

Resolution	
Optimum resolution	1680 x 1050@60 Hz
Maximum resolution	1680 x 1050@60 Hz

Input Signal, Terminated

RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB

0.7 Vp-p ± 5 %

Separate H/V sync, Composite, SOG

TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)

Maximum Pixel Clock

146 MHz (Analog, Digital)

Power Supply

AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz

Signal Cable

15pin - to - 15pin D-sub cable, Detachable

DVI-D to DVI-D connector, Detachable

Audio Signal	
Audio Input	1pin , PC Audio Signal Input
Audio Output	1pin , Earphone Connector
Speaker	1Watt x 2

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Dimensions (W x H x D) / Weight (Simple Stand)

469.3 x 327.8 x 72.3 mm / 18.5 x 12.9 x 2.8 inch (Without Stand)

469.3 x 393.8 x 217.5 mm / 18.5 x 15.5 x 8.6 inch (With Stand), 4.45 kg / 9.8 lbs

Dimensions (W x H x D) / Weight (HAS Stand)

469.3 x 327.8 x 69.4 mm / 18.5 x 12.9 x 2.7 inch (Without Stand)

469.3 x 364.4 x 200.0 mm / 18.5 x 14.3 x 7.9 inch (With Stand), 6.05 kg / 13.3 lbs

VESA Mounting Interface

75.0 mm x 75.0 mm

Environmental considerations

Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % ~ 80 %, non-condensing
Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. The interaction of the monitor and the computer systems will provide the best operating conditions and monitor settings. In most cases, the monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT-LCD panels manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above are used for this product. But the pixels of RED, GREEN, BLUE and WHITE color appear to be bright sometimes or some black pixels may be seen. This is not from bad quality and you can use it without any problems.

For example, the number of TFT-LCD sub pixels contained in this product are 5,292,000.

Note

Design and specifications are subject to change without prior notice.

Class B Equipment (Information Communication equipment for residential use)

This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

PowerSaver

This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

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State	Normal Operation	Power saving mode	Power off (Power button) EPA/ENERGY 2000
Power Indicator	Blue	Blue blinking	Off
Power Consumption	42 watts	1 watts	1 watts

This monitor is EPA ENERGY STAR® compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPM functionality.

As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1680 X 1050	64.674	59.883	119.000	+/-

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

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Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

General

General	
Model Name	SyncMaster 2243WM

LCD Panel	
Size	22 inch (55 cm)
Display area	473.76 mm (H) x 296.1 mm (V)
Pixel Pitch	0.282 mm (H) x 0.282 mm (V)

Synchronization	
Horizontal	30 ~ 81 kHz
Vertical	56 ~ 75 Hz

Display Color

16.7M

Resolution	
Optimum resolution	1680 x 1050@60 Hz
Maximum resolution	1680 x 1050@60 Hz

Input Signal, Terminated

RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB

0.7 Vp-p ± 5 %

Separate H/V sync, Composite, SOG

TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)

Maximum Pixel Clock

146 MHz (Analog, Digital)

Power Supply

AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz

Signal Cable

15pin - to - 15pin D-sub cable, Detachable

DVI-D to DVI-D connector, Detachable

Audio Signal	
Audio Input	1pin , PC Audio Signal Input
Audio Output	1pin , Earphone Connector

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Audio Signal	
Speaker	1Watt x 2

Dimensions (W x H x D) / Weight (Simple Stand)

505.5 x 351.9 x 72.0 mm / 19.9 x 13.9 x 2.8 inch (Without Stand)

505.5 x 417.2 x 217.5 mm / 19.9 x 16.4 x 8.6 inch (With Stand), 5.0 kg / 11.0 lbs

Dimensions (W x H x D) / Weight (HAS Stand)

505.5 x 351.9 x 67.6 mm / 19.9 x 13.9 x 2.7 inch (Without Stand)

505.5 x 375.4 x 200.0 mm / 19.9 x 14.8 x 7.9 inch (With Stand), 6.4 kg / 14.1 lbs

VESA Mounting Interface

100.0 mm x 100.0 mm

Environmental considerations	
Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C) Humidity : 10 % ~ 80 %, non-condensing
Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing

Plug and Play Capability

This monitor can be installed on any Plug & Play compatible system. The interaction of the monitor and the computer systems will provide the best operating conditions and monitor settings. In most cases, the monitor installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT-LCD panels manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above are used for this product. But the pixels of RED, GREEN, BLUE and WHITE color appear to be bright sometimes or some black pixels may be seen. This is not from bad quality and you can use it without any problems.

For example, the number of TFT-LCD sub pixels contained in this product are 5,292,000.

Note

Design and specifications are subject to change without prior notice.

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This product complies with the Electromagnetic Compatibility Directives for residential use and can be used in all areas including common residential areas. (Class B equipment emits less electromagnetic waves than Class A equipment.)

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This monitor has a built-in power management system called PowerSaver. This system saves energy by switching your monitor to low-power mode when it has not been used for a certain amount of time. The monitor automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for

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long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

State	Normal Operation	Power saving mode	Power off (Power button) EPA/ENERGY 2000
Power Indicator	Blue	Blue blinking	Off
Power Consumption	47 watts	1 watts	1 watts

This monitor is EPA ENERGY STAR® compliant and ENERGY2000 compliant when used with a computer equipped with VESA DPM functionality.

As an ENERGY STAR® Partner, SAMSUNG has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
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VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1680 X 1050	64.674	59.883	119.000	+/-

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Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

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Information

For Better Display

Adjust the computer resolution and screen injection rate (refresh rate) on the computer as described below to enjoy the best picture quality. You can have an uneven picture quality on screen if the best picture quality is not provided for TFT-LCD.

- Resolution: 1680 x 1050
- Vertical frequency (refresh rate): 60 Hz

TFT-LCD panels manufactured by using advanced semiconductor technology with a precision of 1ppm (one millionth) and above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without any problems.

- For example, the number of TFT-LCD sub pixels contained in this product are 5,292,000.

When cleaning the monitor and the panel outside, please apply the recommended small amount of cleaner by using a soft cloth to polish. Do not force the LCD area but rub softly.

If excessive force is applied, you may stain it.

If you are not satisfied with the picture quality, you can get better quality of picture by performing the "**Auto Adjustment** function" in display screen that is appeared as window termination button is pressed.

If there's still noise after the automatic adjustment, use the **Fine**/**Coarse** adjustment function.

When viewing a fixed screen for an extended period of time, a residual image or blurriness may appear.

Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.

PRODUCT INFORMATION (Image Retention Free)

LCD Monitors and TVs may have image retention when switching from one image to another especially after displaying a stationary image for a long time.

This guide is to demonstrate correct usage of LCD products in order to protect them from Image retention.

Warranty

Warranty does not cover any damage caused by image retention.

Burn-in is not covered by the warranty.

What is Image retention ?

During normal operation of a LCD panel, pixel image retention doesn't occur. However, if the same image is displayed for a long time, a slight difference in electric charge accumulates between the two electrodes which encase the liquid crystal. This may cause the liquid crystal to build up in a certain areas of the display. Thus, the previous image is retained

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when switching to a new video image. All display products, including LCD, are subject to image retention. This is not a product defect.

Please follow the suggestions below to protect your LCD from image retention.

Power Off, Screen Saver, or Power Save Mode

Ex)

- Turn the power off when using a stationary pattern.
  - Turn the power off for 4 hours after 20 hours in use
  - Turn the power off for 2 hours after 12 hours in use
- Use a Screen saver if possible
  - Screen saver in one color or a moving image is recommended.
- Set the Monitor to power off with the PC Display Properties Power Scheme.

Suggestions for specific applications

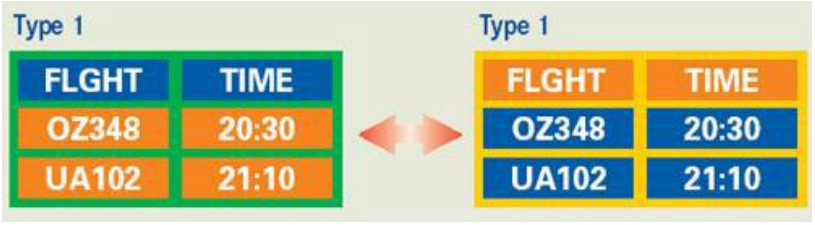
Ex) Airports, Transit Stations, Stock Markets, Banks, and Controlling Systems We recommend that you follow set up of your display system program as below:

Display Information together with Logo or Moving image cycle.

Ex) Cycle : Display Information for 1 hour followed by a Display Logo or moving image for 1 minute.

Change the Color Information periodically (Use 2 different colors).

Ex) Rotate the Color Information with 2 colors every 30 minutes.



Avoid using a combination of characters and background color with large difference in luminance.

Avoid using Grey colors, which can cause Image retention easily.

- Avoid: Colors with big difference in luminance (Black & White, Grey)

  Ex)

- Recommended settings: Bright colors with little difference in luminance
  - Change the characters color and background color every 30 minutes

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Ex)

- Every 30 minutes, change the characters with movement.

Ex)

The best way to protect your monitor from Image retention is to set your PC or System to operate a Screen Saver program when you are not using it.

Image retention may not occur when a LCD panel is operated under normal conditions.

Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (-over 12 hours-), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed.

To prevent this, the accumulated voltage difference must be decreased.

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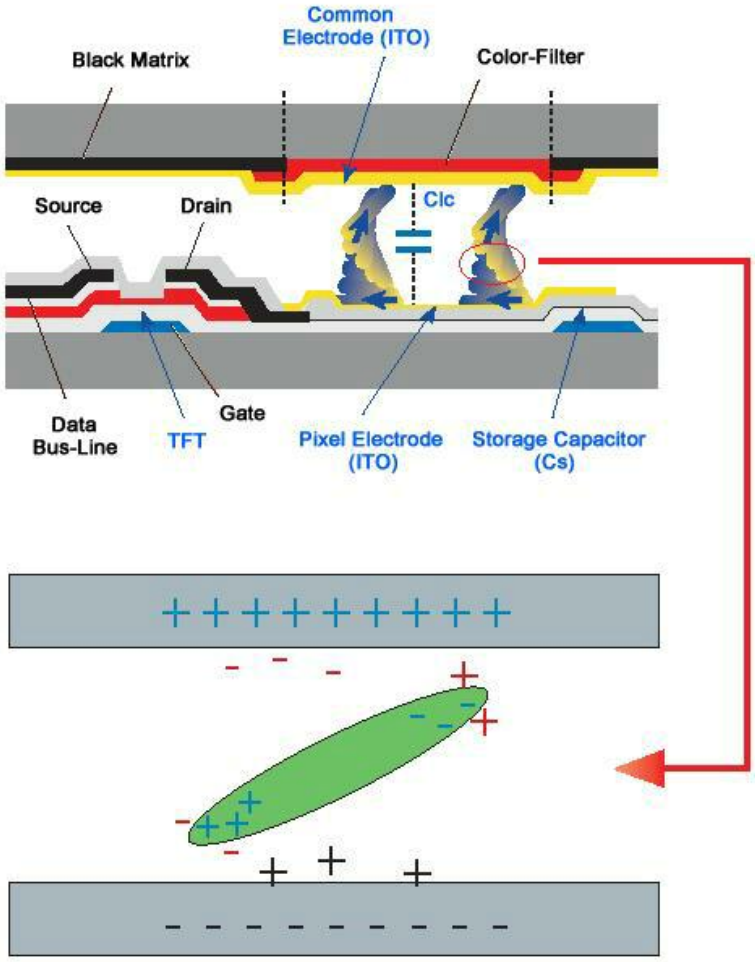

Our LCD Monitor satisfies ISO13406-2 Pixel fault Class II

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Appendix

Contact SAMSUNG WORLDWIDE

Note

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

	North America	
U.S.A	1-800-SAMSUNG(726-7864)	http://www.samsung.com/us
CANADA	1-800-SAMSUNG(726-7864)	http://www.samsung.com/ca
MEXICO	01-800-SAMSUNG(726-7864)	http://www.samsung.com/mx
	Latin America	
ARGENTINE	0800-333-3733	http://www.samsung.com/ar
BRAZIL	0800-124-421	http://www.samsung.com/br
	4004-0000	
CHILE	800-SAMSUNG(726-7864)	http://www.samsung.com/cl
COLOMBIA	01 8000 112 112	http://www.samsung.com/co
COSTA RICA	0-800-507-7267	http://www.samsung.com/latin
ECUADOR	1-800-10-7267	http://www.samsung.com/latin
EL SALVADOR	800-6225	http://www.samsung.com/latin
GUATEMALA	1-800-299-0013	http://www.samsung.com/latin
JAMAICA	1-800-234-7267	http://www.samsung.com/latin
PANAMA	800-7267	http://www.samsung.com/latin
PUERTO RICO	1-800-682-3180	http://www.samsung.com/latin
REP. DOMINICA	1-800-751-2676	http://www.samsung.com/latin
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	http://www.samsung.com/latin
VENEZUELA	1-800-100-5303	http://www.samsung.com/latin
	Europe	
AUSTRIA	0800-SAMSUNG(726-7864)	http://www.samsung.com/at
BELGIUM	0032 (0)2 201 24 18	http://www.samsung.com/be
CZECH REPUBLIC	844 000 844	http://www.samsung.com/cz
Distributor pro Českou republiku: Samsung Zrt., česka organizační složka Vyskočilova 4, 14000 Praha 4		
DENMARK	70 70 19 70	http://www.samsung.com/dk
FINLAND	030-6227 515	http://www.samsung.com/fi
FRANCE	3260 SAMSUNG(726-7864)	http://www.samsung.com/fr
	08 25 08 65 65 (€ 0,15/Min)	
GERMANY	01805 - SAMSUNG(726-7864) (€ 0,14/Min)	http://www.samsung.de
HUNGARY	06-80-SAMSUNG(726-7864)	http://www.samsung.com/hu

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Europe

ITALIA	800-SAMSUNG(726-7864)	http://www.samsung.com/it
LUXEMBURG	0035 (0)2 261 03 710	http://www.samsung.com/be
NETHERLANDS	0900 SAMSUNG(726-7864) (€ 0,10/Min)	http://www.samsung.com/nl
NORWAY	815-56 480	http://www.samsung.com/no
POLAND	0 801 801 881	http://www.samsung.com/pl
	022-607-93-33	
PORTUGAL	80 8 200 128	http://www.samsung.com/pt
REPUBLIC OF IRELAND	0818 717 100	http://www.samsung.com/ie
SLOVAKIA	0800-SAMSUNG(726-7864)	http://www.samsung.com/sk
SPAIN	902 10 11 30	http://www.samsung.com/es
SWEDEN	0771-400 200	http://www.samsung.com/se
SWITZERLAND	0800-SAMSUNG(726-7864)	http://www.samsung.com/ch
U.K	0870-SAMSUNG(726-7864)	http://www.samsung.com/uk

CIS

ESTONIA	800-7267	http://www.samsung.ee
LATVIA	800-7267	http://www.samsung.com/lv
LITHUANIA	8-800-77777	http://www.samsung.lt
KAZAKHSTAN	8-10-800-500-55-500	http://www.samsung.kz
KYRGYZSTAN	00-800-500-55-500	
RUSSIA	8-800-555-55-55	http://www.samsung.ru
UKRAINE	8-800-502-0000	http://www.samsung.ua
UZBEKISTAN	8-800-120-0-400	http://www.samsung.uz

Asia Pacific

AUSTRALIA	1300 362 603	http://www.samsung.com/au
CHINA	800-810-5858	http://www.samsung.com.cn
	010-6475 1880	
HONG KONG	3698 - 4698	http://www.samsung.com/hk
INDIA	3030 8282	http://www.samsung.com/in/
	1800 110011	
INDONESIA	0800-112-8888	http://www.samsung.com/id
JAPAN	0120-327-527	http://www.samsung.com/jp
MALAYSIA	1800-88-9999	http://www.samsung.com/my
NEW ZEALAND	0800 SAMSUNG(726-7864)	http://www.samsung.com/nz
PHILIPPINES	1800-10-SAMSUNG(726-7864)	http://www.samsung.com/ph
SINGAPORE	1800-SAMSUNG(726-7864)	http://www.samsung.com/sg
THAILAND	1800-29-3232, 02-689-3232	http://www.samsung.com/th
TAIWAN	0800-329-999	http://www.samsung.com/tw
VIETNAM	1 800 588 889	http://www.samsung.com/vn

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Middle East & Africa

SOUTH AFRICA	0860-SAMSUNG(726-7864)	http://www.samsung.com/za
TURKEY	444 77 11	http://www.samsung.com.tr
U.A.E	800-SAMSUNG(726-7864)	http://www.samsung.com/mea
	8000-4726	

Terms

Dot Pitch	The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm
Vertical Frequency	The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called the Vertical Frequency or Refresh Rate. Unit: Hz Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.
Horizontal Frequency	The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz
Interlace and Non-Interlace Methods	Showing the horizontal lines of the screen from the top to the bottom sequentially is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.
Plug & Play	This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.
Resolution	The number of horizontal and vertical dots used to compose the screen image is called the 'resolution'. This number shows the accuracy of the display. A high resolution is good for performing multiple tasks as more image information can be shown on the screen. Example: If the resolution is 1680 x 1050 , this means the screen is composed of 1680 horizontal dots (horizontal resolution) and 1050 vertical lines (vertical resolution).

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Correct Disposal

Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Authority

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